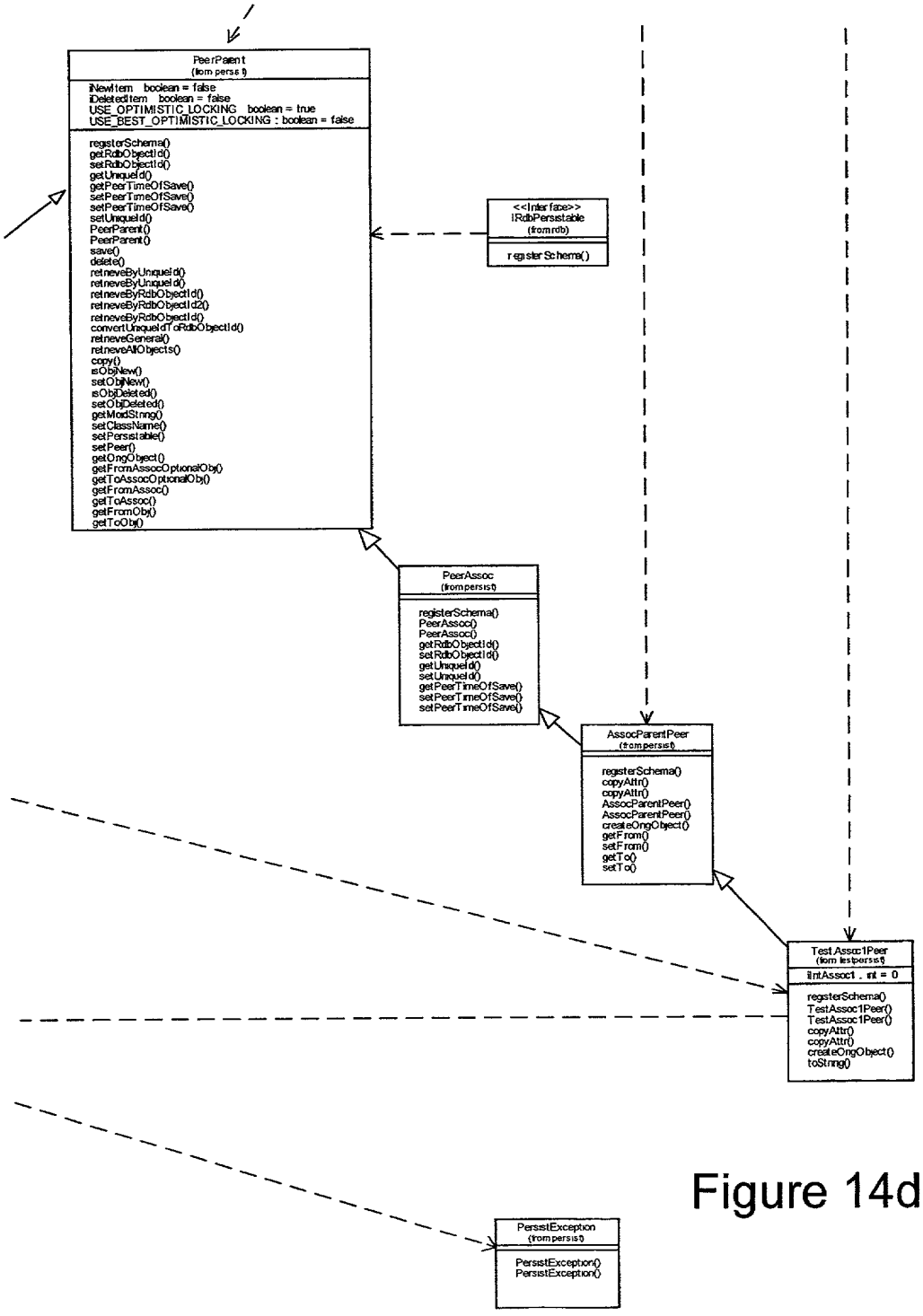
PeerParent
(from persist)
iNewItem boolean = false
iDeletedItem boolean = false
USE_OPTIMISTIC_LOCKING boolean = true
USE_BEST_OPTIMISTIC_LOCKING : boolean = false
registerSchema()
getRdbObjectId()
setRdbObjectId()
getUniqueId()
getPeerTimeOfSave()
setPeerTimeOfSave()
setPeerTimeOfSave()
setUniqueId()
PeerParent()
PeerParent()
save()
delete()
retreveByUniqueId()
retreveByUniqueId()
retreveByRdbObjectId()
retreveByRdbObjectId2()
retreveByRdbObjectId()
convertUniqueIdToRdbObjectId()
retreveGeneral()
retreveAllObjects()
copy()
isObjNew()
setObjNew()
isObjDeleted()
setObjDeleted()
getModdString()
setClassName()
setPersistable()
setPeer()
getOngObject()
getFromAssocOptionalObj()
getToAssocOptionalObj()
getFromAssoc()
getToAssoc()
getFromObj()
getToObj()
<<Interface>>
IRdbPersistable
(from rdb)
registerSchema()
PeerAssoc
(from persist)
registerSchema()
PeerAssoc()
PeerAssoc()
getRdbObjectId()
setRdbObjectId()
getUniqueId()
setUniqueId()
getPeerTimeOfSave()
setPeerTimeOfSave()
setPeerTimeOfSave()
AssocParentPeer
(from persist)
registerSchema()
copyAttri()
copyAttri()
AssocParentPeer()
AssocParentPeer()
createOngObject()
getFrom()
setFrom()
getTo()
setTo()
Test.Assoc1Peer
(from testpersist)
IIntAssoc1 . int = 0
registerSchema()
TestAssoc1Peer()
TestAssoc1Peer()
copyAttri()
copyAttri()
createOngObject()
toString()
PersistException
(from persist)
PersistException()
PersistException()

Figure 14d

GUI (server) & Manager communication
▲ Manager creates objects (services) and "bind" them to Voyager directory service
▲ GUI "looks up" the object by name in directory service and get the object "proxy"
▲ GUI invokes object methods to obtain info or perform operation
Example: Class TDMServer( )
LUN[ ] getAccessibleLunsByHost(HostaHost)
LUN[ ] getAccessibleLunsByHost (java.lang.String ip)
LUN[ ] getAllAccessibleLuns( )
LUN[ ] getAssignedLunsByHost(HostaHost)
LUN[ ] getAssignedLunsByHost(java.lang.String ip)
// Look up the ITdm Server proxy object from the directory service
ITdmServeraTdm = (ITdm Server) Namespace.lookup(
"//localhost:9000/sandir/TdmServer");
// Get a list of all LUN objects in the region.
LUN[ ] temp1 = aTdm.getAllAccessibleLuns( );
GUI server
Presentation
TCP/IP - ORB
Manager
Voyager
DB2
Oracle
machine B
W2K, AIX
98
20

Figure 15

100
View Storage Devices - Tivoli Console (Driver 7)
Console Edit View Manage Disks Window Help
My Work
About PF
PF Samples
Tivoli Administration
Tivoli Storage Network Ma...
Manage Disks
View Storage Devices
View Storage Devices
Storage Device 1 SN
Storage Device 1 SN
Serial Number
Storage Device 1 SN
Type of Storage Device
disk type
External Label
External Label
Product Id
Product Id
Vendor
Vendor
Vital Product Data
Vital Product Data
Unassign LUN
Welcome to the Tivoli Console
View Storage Devices

Figure 16